**Dhanush Bharath Raj:**

Hey this is Dhanush Bharath Raj. here is a brief about the past and the present task. In the previous phase the tasks that were completed are the number one feature engineering that standardizes and transform both the numerical and categorical data to improve the model performance, number two hyper parameter tuning using grid search CV for our models classifiers like random Forest logistic regression and XT boost to improve the accuracy in the present phase we have worked on creating different types of neural network architecture and building neural network models that will help our model in prediction we will also be checking for data leakage in the current phase.

**Hrithik P B:**

Hey! I am Hrithik. For neural network implementation, we have designed two neural networks as shown before you. For the first one, we have a total of 3 hidden layers with ReLU as the activation function. We have used Sigmoid activation function for classifying at the end which is at the output layer. We have run the first neural network architecture for a total of 40 epochs with 0.0001 as the learning rate. Whereas for the second one, we have used only 2 hidden layers with ReLU as the activation function and sigmoid as the activation function for the output layer. We run the second neural network for a total of 28 epochs with 0.0011 learning rate. In addition, we have used stochastic gradient descent as the optimizer for both the neural networks.

**Chiranthan Shadaksharaswamy:**

Hi this is Chiranthan! today I'll be talking about the data leak. Our model was created only using the training data at any point we did not expose the test data as the test and trained data were provided separately we did not do any crossword validation on the data at any point of time by changing the train or test split, to ensure the same we ran the model independently numerous number of times on trust and time validation set and also checks for duplicates. We did not perform any Cardinal cells by overestimating the model or abuse the data model.

**Jitesh Bhandari:**

Hi, it’s Jitesh and now here are the AUC ROC scores for the multilayer perceptron that we have designed. And finally, we have made a Kaggle submission of it. In conclusion we have briefly summarized our journey throughout the project. Thank you!